

Title (en)
INFORMATION PROCESSING APPARATUS FOR ADDITIVE MANUFACTURING SYSTEM, INFORMATION PROCESSING METHOD FOR ADDITIVE MANUFACTURING SYSTEM, AND CARRIER MEDIUM

Title (de)
INFORMATIONSVERRARBEITUNGSVORRICHTUNG FÜR SYSTEM ZUR GENERATIVEN FERTIGUNG, INFORMATIONSVERRARBEITUNGSVERFAHREN FÜR SYSTEM ZUR GENERATIVEN FERTIGUNG UND TRÄGERMEDIUM

Title (fr)
APPAREIL DE TRAITEMENT D'INFORMATIONS DE SYSTÈME DE FABRICATION ADDITIVE, PROCÉDÉ DE TRAITEMENT D'INFORMATIONS POUR SYSTÈME DE FABRICATION ADDITIVE ET SUPPORT

Publication
EP 3181335 A1 20170621 (EN)

Application
EP 16201838 A 20161202

Priority
• JP 2015243409 A 20151214
• JP 2016210974 A 20161027

Abstract (en)
An information processing apparatus used for an additive manufacturing system includes a processor (10) configured to calculate a contact area of a contact face of a three dimensional (3D) model that contacts a base member of an additive manufacturing apparatus (2), calculate an adhesive force that is to occur to the contact face of the 3D model and the base member, rotate the 3D model by changing an angle of the 3D model with respect to a 3D modeling area (45), calculate a warping force that is to occur to the 3D model when the 3D model is to be formed into a 3D object under each orientation set for the 3D model by rotating the 3D model by changing the angle of the 3D model with respect to the 3D modeling area (45), and search for a target orientation of the 3D model where the warping force becomes smaller than the adhesive force.

IPC 8 full level
B29C 67/00 (2017.01)

CPC (source: EP US)
B29C 64/106 (2017.07 - EP); **B29C 64/118** (2017.07 - EP US); **B29C 64/393** (2017.07 - EP); **G05B 19/4099** (2013.01 - US); **B33Y 30/00** (2014.12 - EP US); **B33Y 50/00** (2014.12 - EP US); **G05B 2219/35134** (2013.01 - US); **G05B 2219/49007** (2013.01 - US)

Citation (applicant)
JP 2001328175 A 20011127 - TEIJIN CHEMICALS LTD

Citation (search report)
• [Y] US 2014303942 A1 20141009 - WIGHTON SHANE [US], et al
• [Y] EP 2930694 A2 20151014 - PALO ALTO RES CT INC [US]
• [A] US 2013124151 A1 20130516 - MECH RADOMIR [US], et al
• [Y] PRASHANT KULKARNI ET AL: "A review of process planning techniques in layered manufacturing", RAPID PROTOTYPING JOURNAL, vol. 6, no. 1, 1 March 2000 (2000-03-01), pages 18 - 35, XP055160953, ISSN: 1355-2546, DOI: 10.1108/13552540010309859

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DOCDB simple family (application)
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